ABSTRACT

A METHOD OF FINDING THE PREDICTION DIRECTION IN
INTRAFRAME VIDEO CODING

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        A method of finding the prediction direction during
intraframe video image coding. According to the
invention, the method comprises the following steps:
selecting two initial prediction directions (E, S),
10   calculating virtual blocks associated with said initial
prediction directions (E, S), comparing said virtual
blocks with the current block and selecting the initial
prediction direction (E), which is then called the first
main direction, calculating virtual blocks associated
15   with the prediction directions (ENE, ESE) immediately
adjacent to said first main direction (E), comparing said
virtual blocks with the current block to determine the
best prediction direction, if the best prediction
direction is the first main direction (E) or one
20   direction (ENE) of the immediately adjacent directions
situated at one extremity of the set of prediction
directions, deciding this best direction is the required
prediction direction, otherwise, calculating the virtual
block associated with the prediction direction (SE) other
25   than the first main direction (E) that is immediately
adjacent to the second main direction (ESE), comparing
said virtual blocks with the current block to determine
the best prediction direction, if said best prediction
direction is said second main direction (ESE) or the
30   immediately adjacent direction (SE) situated at one
extremity of the set of prediction directions, deciding
that best direction is the required prediction direction,
otherwise, continuing the process iteratively until the
required prediction direction is found. Application to
35   video coding.